IN THE CLAIMS:

Please cancel claims 28-31 without prejudice, and amend the claims as follows:

1. (Previously Presented) A method of processing a substrate comprising silicon, comprising:

depositing a layer comprising amorphous carbon on the substrate; and then exposing the substrate to electromagnetic radiation having a wavelength between about 600 nm and about 1000 nm under conditions sufficient to heat the layer to a temperature of at least about 300°C.

- 2. (Original) The method of claim 1, wherein the exposing the substrate to electromagnetic radiation comprises laser annealing the substrate.
- 3. (Original) The method of claim 2, wherein the laser annealing comprises focusing continuous wave electromagnetic radiation into a line extending across a surface of the substrate.
- 4. (Original) The method of claim 1, wherein the electromagnetic radiation is provided by a lamp.
- 5. (Original) The method of claim 1, wherein the layer comprising amorphous carbon is deposited by plasma enhanced chemical vapor deposition.
- 6. (Original) The method of claim 1, further comprising removing the layer from the substrate after the exposing the substrate to electromagnetic radiation.
- 7. (Original) The method of claim 1, further comprising implanting dopant ions into the substrate before the depositing a layer comprising amorphous carbon.

- 8. (Original) The method of claim 7, wherein the substrate is exposed to the electromagnetic radiation for a period of time sufficient to activate the implanted dopant ions.
- 9. (Previously Presented) A method of processing a substrate comprising silicon, comprising:

depositing a layer comprising amorphous carbon and a dopant selected from the group consisting of nitrogen, boron, phosphorus, fluorine, and combinations thereof on the substrate; and then

exposing the substrate to electromagnetic radiation having a wavelength between about 600 nm and about 1000 nm under conditions sufficient to heat the layer to a temperature of at least about 300°C.

- 10. (Original) The method of claim 9, wherein the exposing the substrate to electromagnetic radiation comprises laser annealing the substrate.
- 11. (Original) The method of claim 10, wherein the laser annealing comprises focusing continuous wave electromagnetic radiation into a line extending across a surface of the substrate.
- 12. (Original) The method of claim 9, wherein the electromagnetic radiation is provided by a lamp.
- 13. (Original) The method of claim 9, wherein the dopant is nitrogen.
- 14. (Original) The method of claim 9, wherein the layer is deposited at a temperature between about 250°C and about 450°C.
- 15. (Original) The method of claim 9, wherein the layer is deposited by plasma enhanced chemical vapor deposition.

- 16. (Original) The method of claim 9, further comprising removing the layer from the substrate after the exposing the substrate to electromagnetic radiation.
- 17. (Original) The method of claim 9, further comprising implanting dopant ions into the substrate before the depositing a layer comprising amorphous carbon.
- 18. (Original) The method of claim 17, wherein the substrate is exposed to the electromagnetic radiation for a period of time sufficient to activate the implanted dopant ions.
- 19-31. (Canceled)
- 32. (Currently Amended) [[The]] <u>A</u> substrate of claim 28 comprising silicon, processed by a method comprising:

depositing a layer comprising amorphous carbon[[,]] wherein the layer further comprises and a dopant selected from the group consisting of nitrogen, boron, phosphorus, fluorine, and combinations thereof on the substrate; and then

exposing the substrate to electromagnetic radiation having a wavelength between about 600 nm and about 1000 nm under conditions sufficient to heat the layer to a temperature of at least about 300°C.

33. (Currently Amended) [[The]] <u>A</u> substrate of claim 28 comprising silicon, processed by a method comprising:

depositing a layer comprising amorphous carbon[[,]] wherein the layer further comprises and nitrogen on the substrate; and then

exposing the substrate to electromagnetic radiation having a wavelength between about 600 nm and about 1000 nm under conditions sufficient to heat the layer to a temperature of at least about 300°C.

34. (Canceled)

35. (Currently Amended) [[The]] <u>A</u> substrate of claim 28 comprising silicon, processed by a method comprising:

depositing a layer comprising amorphous carbon on the substrate; and then exposing the substrate to electromagnetic radiation having a wavelength between about 600 nm and about 1000 nm under conditions sufficient to heat the layer to a temperature of at least about 300°C, wherein the method further comprises implanting dopant ions into the substrate before the depositing a layer comprising amorphous carbon.

- 36. (Original) The substrate of claim 35, wherein the substrate is exposed to the electromagnetic radiation for a period of time sufficient to activate the implanted dopant ions.
- 37. (Previously Presented) A method of processing a substrate comprising silicon, comprising:

depositing a layer comprising amorphous carbon on the substrate; and then exposing the substrate to pulses of electromagnetic radiation under conditions sufficient to heat the layer to a temperature of at least about 300°C.

- 38. (Previously Presented) The method of claim 37, wherein exposing the substrate to electromagnetic radiation heats a top surface layer of the substrate to a temperature between about 1100°C and about 1410°C.
- 39. (Previously Presented) The method of claim 37, wherein the layer further comprises a dopant selected from the group consisting of nitrogen, boron, phosphorus, fluorine, and combinations thereof.
- 40. (Previously Presented) The method of claim 37, further comprising removing the layer from the substrate after the exposing the substrate to the electromagnetic radiation.

- 41. (Previously Presented) The method of claim 37, further comprising implanting dopant ions into the substrate before the depositing a layer comprising amorphous carbon.
- 42. (Previously Presented) A method of processing a substrate comprising silicon, comprising:

depositing a layer comprising amorphous carbon on the substrate; and then exposing the substrate to electromagnetic radiation provided by a lamp under conditions sufficient to heat the layer to a temperature of at least about 300°C.

- 43. (Previously Presented) The method of claim 42, wherein the lamp is an ARC lamp.
- 44. (Previously Presented) The method of claim 42, wherein exposing the substrate to electromagnetic radiation heats a top surface layer of the substrate to a temperature between about 1100°C and about 1410°C.
- 45. (Previously Presented) The method of claim 42, wherein the layer further comprises a dopant selected from the group consisting of nitrogen, boron, phosphorus, fluorine, and combinations thereof.
- 46. (Previously Presented) The method of claim 42, further comprising removing the layer from the substrate after the exposing the substrate to the electromagnetic radiation.